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(54) SILVER-PALLADIUM COPRECIPITATION POWDER AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To produce an alloy at low temp. and to obtain a coprecipitation powder without mixing fine particles by using hydrazine hydrate in an acid region as a reducing agent for palladium salt and using ammonium formate as a reducing agent for silver salt.

CONSTITUTION: The pH of a soln. containing silver salt and palladium salt is controlled in an alkali region. The pH of a soln. containing ammonium formate and hydrazine hydrate compd. as a reducing agent is controlled in an acid region. At least one of ammonium acetate and ammonium carbonate is added to at least one of the prepared soln. containing the metal salt and the soln. containing the reducing agent. The soln. containing the metal salt and the soln. containing the reducing agent are mixed to precipitate silver and palladium at one time.

Thereby, a silver-palladium coprecipitation powder having 0.1-2.0 μ m particle size having almost a spherical shape is obtd. When the obtd. silver palladium coprecipitation powder is prepared as a paste, its printing property is excellent.